

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04420

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/373

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/023733 A1 (FOX JOE R ET AL) 28 February 2002 (2002-02-28) paragraph '0028!	1-38
A	EP 0 859 408 A (SUMITOMO ELECTRIC INDUSTRIES) 19 August 1998 (1998-08-19) the whole document	1-38
A	EP 0 930 378 A (SAINT GOBAIN NORTON IND CERAMI) 21 July 1999 (1999-07-21) paragraph '0020!	1-38
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

21 April 2004

Date of mailing of the international search report

29/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Cousins, D

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04420

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SUMIO LIJIMA ET AL: "EARLY FORMATION OF CHEMICAL VAPOR DEPOSITION DIAMOND FILMS" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 57, no. 25, 17 December 1990 (1990-12-17), pages 2646-2648, XP000176420 ISSN: 0003-6951 the whole document	
A	EP 0 844 319 A (MATSUSHITA ELECTRIC IND CO LTD) 27 May 1998 (1998-05-27) the whole document	1-38

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04420

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002023733	A1	28-02-2002	NONE	
EP 0859408	A	19-08-1998	JP 10223812 A DE 69806193 D1 DE 69806193 T2 EP 0859408 A2 US 6171691 B1 US 6270848 B1	21-08-1998 01-08-2002 21-11-2002 19-08-1998 09-01-2001 07-08-2001
EP 0930378	A	21-07-1999	CA 2258388 A1 EP 0930378 A1 JP 3187784 B2 JP 11255598 A	20-07-1999 21-07-1999 11-07-2001 21-09-1999
EP 0844319	A	27-05-1998	EP 0844319 A1 KR 262259 B1 US 6068883 A WO 9747789 A1 JP 10081589 A	27-05-1998 15-07-2000 30-05-2000 18-12-1997 31-03-1998